

ABSTRACT OF THE INVENTION

A method of diagnosing a subject by delivering ultrasound signals using shear waves includes applying a portion of an ultrasound mainbeam to a bone surface at an
5 incident angle relative to the surface of the bone to induce shear waves in the bone, energy in the shear waves forming a substantial part of energy of first ultrasound waves at a desired region in the subject through the bone, detecting at least one of reflected and scattered energy of the applied ultrasound mainbeam, and analyzing the detected energy for a diagnostic purpose.

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